

## AMENDMENTS TO THE CLAIMS

1           1.     (Canceled)

1           2.     (Canceled)

1           3.     (Canceled)

1           4.     (Canceled)

1           5.     (Canceled)

1           6.     (Canceled)

1           7.     (Canceled)

1           8.     (Previously Presented)       A method of generating customized versions  
2 of a document using a computer system, the method comprising:  
3       storing the document in raw form;  
4       parsing the document to create an internal representation of the document;  
5       receiving a request to generate a second-level document;  
6       decomposing the document to create the second-level document, wherein  
7       decomposing the document comprises:  
8       applying a first first-level transform to the internal representation of the  
9       document to create a first first-level document; and  
10       in response to the request to generate the second-level document, applying  
11       a second-level transform to the first first-level document to create  
12       the second-level document; and  
13       decomposing the document to create a second first-level document, wherein  
14       decomposing the document to create the second first-level document  
15       comprises:  
16       applying a second first-level transform to the internal representation of the  
17       document to create a second first-level document;

18 wherein the first first-level document and the second first-level document are  
19 different.

1 9. (Currently Amended) [[A]] The method as defined in Claim 8, wherein  
2 applying a first first-level transform and applying a second-level transform comprises  
3 applying sequential transforms to the document.

1 10. (Canceled)

1 11. (Canceled)

1 12. (Currently Amended) [[A]] The method as defined in Claim 8, wherein  
2 decomposing the document comprises applying a third-level transform to the second  
3 level document to create a third-level document.

1 13. (Currently Amended) [[A]] The method as defined in Claim 8, wherein  
2 the document is stored in raw XML form.

1 14. (Currently Amended) [[A]] The method as defined in Claim 13, wherein  
2 applying a first first-level transform and applying a second-level transform comprises  
3 applying sequential transforms to the document.

1 15. (Currently Amended) [[A]] The method as defined in Claim 14, wherein  
2 applying a first first-level transform of the document stored in raw XML form comprises  
3 applying a subscription-level transform to the internal representation of the document to  
4 create a subscription-level document.

1 16. (Currently Amended) [[A]] The method as defined in Claim 15, wherein  
2 the subscription-level transform enables content filtering of the internal representation in  
3 accordance with a user's request.

1           17.     (Currently Amended) [[A]] The method as defined in Claim 16, wherein  
2     applying a second-level transform comprises applying an organization-level transform to  
3     the subscription-level document to create an organization-level document.

1           18.     (Currently Amended) [[A]] The method as defined in Claim 17, wherein  
2     the organization-level transform enables subscription-specific content filtering of a  
3     subscription-level document.

1           19.     (Currently Amended) [[A]] The method as defined in Claim 18, wherein  
2     decomposing the document comprises applying a presentation-level transform to the  
3     organization-level document to create a presentation-level document.

1           20.     (Currently Amended) [[A]] The method as defined in Claim 19, wherein  
2     the presentation-level transform generates an organization-specific document for end user  
3     presentation.

1           21.     (Currently Amended) [[A]] The method as defined in Claim 20, wherein  
2     the presentation-level transform generates an HTML document or a text file for end user  
3     presentation.

4           22.     (Currently Amended) [[A]] The method as defined in Claim 21, wherein  
5     the subscription-level transform is mandatory and the organization-level and  
6     presentation-level transforms are optional.

1           23.     (Currently Amended) [[A]] The method as defined in Claim 8, wherein a  
2     transform is applied to a document only as a result of an initial demand for a transformed  
3     document.

1           24.     (Currently Amended) [[A]] The method as defined in Claim 23, wherein  
2     the demand for a transformed document is a client request.

1           25.     (Currently Amended) [[A]] The method as defined in Claim 24, wherein  
2     the demand for a transformed document is a document publication process.

1           26.     (Currently Amended) [[A]] The method as defined in Claim 23, wherein  
2     transformed documents are written to a cache.

1           27.     (Currently Amended) [[A]] The method as defined in Claim 26, wherein  
2     demands for a transformed document, subsequent to the initial demand, are referred to  
3     the cache.

1           28.     (Currently Amended) A computer readable medium having [[data]] code  
2     stored therein to cause a data processing system to generate a data document according to  
3     a process comprising:

4             storing a raw form of the document;  
5             parsing the document to create an internal representation of the document; and  
6             receiving a request from a client computer system coupled to the data processing  
7             system to generate a second-level document into a particular form;  
8             decomposing the document into the form requested by the client system, wherein  
9             decomposing the document comprises:  
10            applying a first first-level transform to the internal representation of the  
11            document to create a first first-level document; and  
12            in response to the request to generate the second-level document, applying  
13            a second-level transform to the first first-level document to create  
14            the second-level document; and  
15            decomposing the document to create a second first-level document, wherein  
16            decomposing the document to create the second first-level document  
17            comprises:  
18            applying a second first-level transform to the internal representation of the  
19            document to create a second first-level document;  
20     wherein the first first-level document and the second first-level document are  
21     different.

1           29.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 28, wherein applying a first first-level transform and applying a second-level  
3     transform comprises applying sequential transforms to the document.

1           30.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 28, wherein the document is stored in XML form.

1           31.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 30, wherein the document stored in XML form is parsed by an XML parser to  
3     create the internal representation.

1           32.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 31, wherein the internal representation level of the document is transformed to a  
3     subscription-level document by applying a subscription-level transform to the internal  
4     representation.

1           33.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 32, wherein application of the subscription level transform to the internal  
3     representation to create a subscription-level document is required.

1           34.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 32, wherein the subscription-level document is transformed into an organization-  
3     level document by applying an organization-level transform to the subscription-level  
4     document.

1           35.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 34, wherein application of the organization-level transform to the subscription-  
3     level document to create an organization-level document is optional.

1           36.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 34, wherein the internal representation of the document is decomposed to a  
3     transform-level document only in response to a request for a transform-level document.

1           37.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 36, wherein transformed documents are written to a cache.

1           38.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 37, wherein an initial request for a transformed document causes decomposition of  
3     the internal representation into the form requested and wherein subsequent requests for a  
4     transformed document causes the transformed document to be retrieved from memory.

1           39.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim [[29]] 28, wherein the ~~data document is generated according to a process-~~  
3     ~~comprising~~ code is further configured to cause the data processing system to:  
4         ~~tracking the dependencies of a transformed document track changes to at least one~~  
5         of: (i) the raw form of the document, (ii) the first first-level transform,  
6         (iii) the second level transform, and (iv) the second first-level transform;  
7         and  
8         ~~regenerating regenerate~~ the transformed document when any of (i)-(iv)  
9         ~~dependency-related to the document changes.~~

1           40.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 39, ~~wherein the document is generated according to a process comprising wherein~~  
3     the code is further configured to cause the data processing system to:  
4         ~~designating designate~~ a cached version of the document invalid when any  
5         dependency related to the document changes, and  
6         ~~regenerating regenerate~~ the transformed document in response to a request for the  
7         document that is made after the dependency change.

1           41.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 40, wherein the document is stored in XML form.

1           42.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 39, wherein the document stored in XML form is parsed by an XML parser to  
3     create the internal representation.

1           43.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 42, wherein the internal representation level of the document is transformed to a  
3     subscription-level document by applying a subscription-level transform to the internal  
4     representation.

1           44.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 43, wherein application of the subscription level transformed to the internal  
3     representation to create a subscription-level document is required.

1           45.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 43, wherein the subscription-level document is transformed into an organization-  
3     level document by applying an organization-level transform to the subscription-level  
4     document.

1           46.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 45, wherein application of the organization-level transform to the subscription-  
3     level document to create an organization-level document is optional.

1           47.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 45, wherein the internal representation of the document is decomposed to a  
3     transform-level document only in response to a request for a transform-level document.

1           48.     (Currently Amended) [[A]] The computer readable medium as defined in  
2     Claim 47, wherein transformed documents are written to a cache.

49-73. (Canceled)

1        74. (New) A system comprising:  
2        a processor; and  
3        a memory, coupled to the processor, having code stored therein to cause the  
4        system to generate a data document, wherein the code is executable by the  
5        processor for:  
6        storing a raw form of the document;  
7        parsing the document to create an internal representation of the document;  
8        and  
9        receiving a request from a client computer system coupled to the data  
10       processing system to generate a second-level document into a  
11       particular form;  
12       decomposing the document into the form requested by the client system,  
13       wherein decomposing the document comprises:  
14       applying a first first-level transform to the internal representation  
15       of the document to create a first first-level document; and  
16       in response to the request to generate the second-level document,  
17       applying a second-level transform to the first first-level  
18       document to create the second-level document; and  
19       decomposing the document to create a second first-level document,  
20       wherein decomposing the document to create the second first-level  
21       document comprises:  
22       applying a second first-level transform to the internal  
23       representation of the document to create a second first-level  
24       document;  
25       wherein the first first-level document and the second first-level document  
26       are different.

1        75. (New) The system as defined in Claim 74, wherein applying a first first-  
2       level transform and applying a second-level transform comprises applying sequential  
3       transforms to the document.



1           76.   (New) The system as defined in Claim 74, wherein the document is stored  
2   in XML form.

1           77.   (New) The system as defined in Claim 76, wherein the document stored in  
2   XML form is parsed by an XML parser to create the internal representation.

1           78.   (New) The system as defined in Claim 77, wherein the internal  
2   representation level of the document is transformed to a subscription-level document by  
3   applying a subscription-level transform to the internal representation.

1           79.   (New) The system as defined in Claim 78, wherein application of the  
2   subscription level transform to the internal representation to create a subscription-level  
3   document is required.

1           80.   (New) The system as defined in Claim 78, wherein the subscription-level  
2   document is transformed into an organization-level document by applying an  
3   organization-level transform to the subscription-level document.

1           81.   (New) The system as defined in Claim 78, wherein application of the  
2   organization-level transform to the subscription-level document to create an organization-  
3   level document is optional.

1           82.   (New) The system as defined in Claim 80, wherein the internal  
2   representation of the document is decomposed to a transform-level document only in  
3   response to a request for a transform-level document.

1           83.   (New) The system as defined in Claim 82, wherein transformed  
2   documents are written to a cache.

1           84.   (New) The system as defined in Claim 83, wherein an initial request for a  
2   transformed document causes decomposition of the internal representation into the form

3 requested and wherein subsequent requests for a transformed document causes the  
4 transformed document to be retrieved from memory.

1 85. (New) The system as defined in Claim 74, wherein the code is further  
2 configured to cause the processor to:  
3 track changes to at least one of: (i) the raw form of the document, (ii) the first  
4 first-level transform, (iii) the second level transform, and (iv) the second  
5 first-level transform; and  
6 regenerate the transformed document when any of (i)-(iv) changes.

1 86. (New) The system as defined in Claim 85, wherein the code is further  
2 configured to cause the processor to:  
3 designate a cached version of the document invalid when any dependency related  
4 to the document changes, and  
5 regenerate the transformed document in response to a request for the document  
6 that is made after the dependency change.

1 87. (New) The system as defined in Claim 86, wherein the document is stored  
2 in XML form.

1 88. (New) The system as defined in Claim 85, wherein the document stored in  
2 XML form is parsed by an XML parser to create the internal representation.

1 89. (New) The system as defined in Claim 88, wherein the internal  
2 representation level of the document is transformed to a subscription-level document by  
3 applying a subscription-level transform to the internal representation.

1 90. (New) The system as defined in Claim 89, wherein application of the  
2 subscription level transformed to the internal representation to create a subscription-level  
3 document is required.

1           91.   (New) The system as defined in Claim 89, wherein the subscription-level  
2 document is transformed into an organization-level document by applying an  
3 organization-level transform to the subscription-level document.

1           92.   (New) The system as defined in Claim 91, wherein application of the  
2 organization-level transform to the subscription-level document to create an organization-  
3 level document is optional.

1           93.   (New) The system as defined in Claim 91, wherein the internal  
2 representation of the document is decomposed to a transform-level document only in  
3 response to a request for a transform-level document.

1           94.   (New) The system as defined in Claim 93, wherein transformed  
2 documents are written to a cache.